

MIT's Oldest and
Largest Newspaper

thetech.com



WEATHER, p. 2

THU: 80°F | 55°F
Mostly Sunny
 FRI: 68°F | 51°F
Sunny
 SAT: 72°F | 58°F
Mostly Sunny

Volume 137, Number 20

Thursday, August 31, 2017



MAHI NUR MUHAMMAD

Armies of MIT's east and west side engage in MIT's annual REX "Water Wars" Aug. 29 as dusk fell on Killian Court.

Freshmen receive scannable backpacks courtesy of AFFOA

CEO of fabric inst. hopes they'll help students connect

By Amy Shim

Members of the Class of 2021 received a surprise gift upon checking in to MIT — a backpack that, when scanned with a smartphone, can display the profile its wearer uploaded. The fiber technology used in the backpack was developed for mass production earlier this year by MIT-based Advanced Functional Fabrics of America (AFFOA), a consortium of companies, universities, research organizations, and non-profits dedicated to fiber and textile innovation.

Each backpack has a unique weave pattern that functions similarly to a barcode. Through the AFFOA Looks app, users can scan a Looks backpack and connect to other users.

"It's the first time there's been a backpack that looks and is as unique as you are," Yoel Fink PhD '00, Course 3 professor and chief executive of AFFOA, said in an interview with The Tech.

Scanning a backpack amounts to only "looking" at another user — that is, the screen will show only

information that a user chooses to make public, such as a picture or short blurb. Users then have the option to "connect" with other users, which can reveal more private information such as an email address.

"It's an entirely new way of connecting with people," Fink said. "The technology really gives you a way to know about a person — what they want to display — before getting closer to them. But unlike social media, it's based on physical interactions."

Backpack, Page 3

IN SHORT

Deadline to waive MIT extended insurance is Thursday, August 31.

PE registration for undergrads opens 8 a.m. Friday, September 1.

Labor Day is Monday, September 4.

Registration Day is Tuesday, September 5.

The first day of classes is Wednesday, September 6.

Registration deadline for fall classes for all students is Friday, September 8.

Degree application deadline for February SB and advanced degrees is Friday, September 8.

Send news and tips to news@tech.mit.edu.

Behind bars, MIT janitor awaits ruling on ICE deportation

His detainment by immigration officers was unlawful, lawyer says

By Vivian Zhong
EDITOR IN CHIEF

More than a month after being detained by Immigration and Customs Enforcement (ICE), MIT custodian and Chelsea resident Francisco Rodriguez remains behind bars.

Rodriguez came to the U.S. illegally in 2006 to escape gang violence in El Salvador, according to an interview with WBUR earlier this month. After being refused asylum in 2007, he has received yearly stays of removal, which had allowed him to

remain in the country.

This year, his request for another stay was denied, and he was ordered to check in with ICE on July 13 with plane tickets back to El Salvador. Despite complying with the order, Rodriguez was taken into federal custody by ICE. According to WBUR, a statement from ICE asserted that Rodriguez was arrested for failing "to make timely arrangements for his departure back to El Salvador."

But his lawyer, Matt Cameron,

Rodriguez, Page 4

After struggling to maintain business, MacGregor Convenience closes

MacGregor Convenience, which was managed by 660 Corporation on a year-to-year contract with MIT, will not reopen this fall.

MacCon has struggled to "maintain a strong business operation for a few years now," Naomi Carton, associate dean of residential life and dining, wrote to MacGregor residents Aug. 24.

"The sales decline can be attributed to factors including small store size that limited product mix, and growing preference among students for healthier food choices, which was reflected in the 2017 Food and Dining survey results," Matthew Bauer, director of communications for the Division of Student Life, wrote in an email to The Tech Wednesday.

"I knew from talking to the cashiers that business wasn't great," Nina Lutz '19, president of MacGregor, wrote in an email to The Tech Tuesday.

While the closure of the store will bring about a loss of a convenient resource that residents enjoyed, MacCon isn't "a necessary and fundamental component of daily life of MacGregor," Lutz

wrote.

"The convenience store was a great thing to have, but we have a lot more to offer," Lutz wrote citing great views, guaranteed singles, and the "ability to have your own space but still be part of a strong, family like culture in an entry."

"Overall people are kind of disappointed, but no one has reached out to me or exec (at least via email) with very strong feelings. I think a lot of residents knew this was probably going to happen eventually," Lutz wrote.

This fall, a group of MacGregor residents will work with ResLife in a committee to determine what the now-empty space on the first floor of the dorm will be used for. In the past, during "general renovations" committee meetings, residents have indicated interest in having a country kitchen or additional recreational spaces, Lutz wrote.

660 Corporation, which also operates LaVerde's, will be "focusing its efforts on LaVerde's, undertaking a renovation over IAP to emphasize more fresh and healthy foods," Bauer wrote.

— Karleigh Moore



MAHI NUR MUHAMMAD

MacGregor's convenience store closed after struggling to maintain business.

Unwilling free-food debutante Oath Pizzeria inundated

News of what turned out to be a "closed door event for friends and family" at Oath Pizza was sent to the free-food mailing list Saturday afternoon, causing the event to begin to get "out of hand" after an estimated 50 to 60 MIT students showed up for free pizza unexpectedly.

About 45 minutes after the first email, Oath Pizza employee Tianna Tarquinio asked that the event be removed from the list.

A member publicly poked fun at her misunderstanding that it is possible to remove a post from a mailing list: "On behalf of the free food MIT mailing list, your corporation has been swiftly wiped

off the face of the free food list," the member said, and jabbed that "its not pizza. Its garlic bread with ketchup, chilli sauce and or mayonnaise. Not bad though"

Tarquinio did not directly respond to the (perhaps tongue-in-cheek) criticism that Oath has mislabeled its signature dish. She did write in an email to The Tech that "Oath pizzas start with a hand-stretched dough" and proceeded with a bubbly description of how the pizza is made and why it should be considered a quality product.

"We were super excited to see so many students show up and were impressed by how quickly word traveled," she said. "It was also a

good pressure test of our staff, so it ended up being awesome!"

She said that a Grand Opening Celebration for the 181 Massachusetts Ave location would feature half-price pizzas and would take place Sept. 7.

The free-food mailing list has approximately 2,800 members, and perennially suffers under a regime of would-be members emailing the list asking to be subscribed. Athena account holders wishing to subscribe should, in fact, visit <http://webmoira.mit.edu/> and enroll themselves, or type "blanche free-food -a \$USER" at an Athena prompt.

— William Navarre

FSILGS

REX is ending, but rush and recruitment are starting! Get a teaser in this issue's feature. **DC, p. 6**

HURRICANE HARVEY

A look at the magnitude of the devastation. **WEATHER, p. 2**

CAMPUS SNAPSHOTS

New House under construction; orientation game shows. **NEWS, pp. 3-4**



GO WEST (TO LA)

A funny yet heartbreaking look at obsession. **ARTS, p. 5**

DREADING 7.01X? LIGHTEN UP

A biologist gave birth to twins. She named one Tim and the other Control.

SECTIONS

Arts 5
Daily Confusion . . . 6
Fun Pages 9



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The Tech (ISSN 0148-9607) is published on Thursdays during the academic year (except during MIT vacations) and monthly during the summer by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are \$50.00 per year (third class). **POSTMASTER:** Please send all address changes to our mailing address: The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. **TELEPHONE:** Editorial: (617) 253-1541. Business: (617) 258-8324. Facsimile: (617) 258-8226. *Advertising, subscription, and typesetting rates available.* Entire contents © 2017 **The Tech**. Printed by Turkey Publications, Inc.

WEATHER

Harvey sets rainfall, damage records in Texas, Louisiana

By Jordan Benjamin

STAFF METEOROLOGIST

Cambridge will experience a brief cooldown on Friday as a cold front pushes through the northeast. Temperatures Friday night could approach 50 °F (10 °C) before Hurricane Harvey's remnants pass near the region over the weekend. Harvey, the eighth storm, third hurricane, and first major hurricane of the 2017 Atlantic hurricane season, is finally moving away from the gulf coast regions of Texas and Louisiana it battered so badly over the past week. Harvey made landfall late Friday evening near Rockport, Texas (approximately 160 miles SW of Houston) as a category 4 hurricane with 130 mph winds (about 210 km/h). It was the first major hurricane to make landfall in the United States since Wilma did so in Florida in 2005, and the first hurricane to hit Texas since Ike did so in 2008.

However, it was not Harvey's winds and storm surge that caused the greatest impact. The storm took an extremely unusual path following landfall first slowing, then reversing its motion and moving back offshore over the course of several days. It eventually reversed course again and made landfall once again in southwest Louisiana early Wednesday morning. It was Harvey's unyielding, torrential rains along this bizarre path that caused the greatest destruction. Harvey is expected to still be located over northern Louisiana Thursday afternoon, a week after its rains first started to impact the gulf coast.

The incredible longevity of Harvey's impacts led to unfathomable rainfall amounts; a rainfall maximum of 51.88" (131.78 cm) was recorded in the Houston metro area according

to the National Weather Service. The amount would represent a single-storm rainfall record for the continental US and fall just short of the 52.00" (132.08 cm) overall record from 1950 Hurricane Hiki in Hawaii. Over six million people, mostly in the Houston area, experienced over 30" (76.20 cm) of rainfall. Harvey unleashed over 25 trillion gallons of water on Texas and Louisiana; to understand just how much water this is, consider that if this volume was placed on MIT's campus, it would extend about 140 kilometers into the sky. Spread over Massachusetts, this water would form a layer 3.4 meters deep; over the entire US (including Alaska and Hawaii), it would still form a layer almost 1 centimeter deep.

This incredible volume of water created the incredible, long-lasting flooding seen in news reports and social-media, and the human and economic impacts of the damage caused will last for months. Harvey is one of the costliest natural disasters in US history; it remains unclear whether it will exceed Hurricane Katrina to become the costliest.

In the face of a warming climate, links between Harvey and climate change may be prematurely drawn. Climate change is expected to increase the likelihood and frequency of heavy rain events and to potentially increase the intensity of hurricanes and their impacts. However, it is too soon to attribute any responsibility for Harvey's devastation to this change - little analysis has been done to understand what factors contributed to this particular disaster.

While it is possible increased moisture, higher sea surface temperatures, and other factors derived from a warmed climate aided Harvey's rains, the storm also took a very slow

and unusual, but not at all unreasonable path that placed it over the same locations for many days. Quantifying climate change's impact on Harvey will undoubtedly be the subject of much future analysis in the atmospheric sciences.

Dr. Kerry Emanuel, Cecil & Ida Green Professor of Atmospheric Science and Co-Director of the Lorenz Center at MIT, conducted some preliminary statistical climate analysis on Harvey-like rainfall events in Texas that suggests that these sorts of events were in fact more likely over the past 3 years than they were before 2014, but increases in temperature and moisture are not enough to explain the increase in likelihood. Rather, he implicates weaker steering currents over that time period as a likely driving factor, and points out that these changes in steering currents are not of sufficient longevity to link to climate change.

Future research remains necessary to continue to understand how natural disasters will evolve in the future; right now, the long road to recovery begins for those affected by the storm.

Extended Forecast

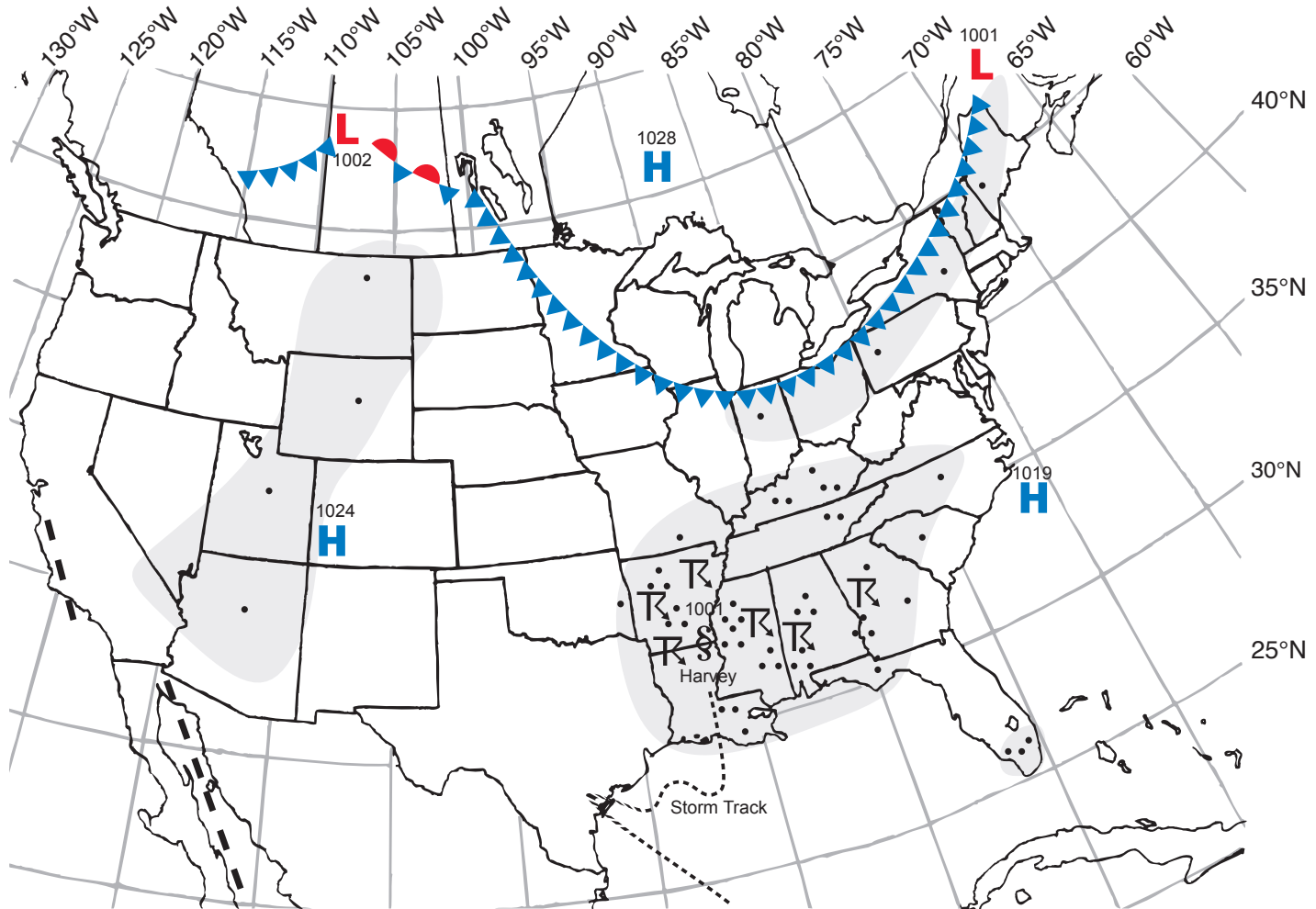
Today: Mostly sunny. High 80°F (27°C). Winds W at around 10 mph.

Tonight: Mostly Clear. Low 55°F (13°C). Winds NW at 10 mph.

Tomorrow: Sunny; breezy. High 68°F (20°C). Low around 51 °F (11 °C). Winds NW at 10-20 mph.

Saturday: Mostly sunny. High around 72 °F (22 °C). Low around 58 °F (14 °C).

Sunday: Showers Likely. High around 73 °F (23 °C).



Situation for Noon Eastern Time, Thursday, August 31, 2017

Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
H High Pressure	--- Trough	Snow: * Rain: .	☁ Fog
L Low Pressure	☀ Warm Front	Showers: ▽ Light: * Moderate: ** Heavy: ❄	⚡ Thunderstorm
§ Hurricane	▲ Cold Front		∞ Haze
	▲ Stationary Front		

File Edit Options Buffers Tools Im-Python Python Help

```
from new_skills import *
```

```
def learnMarketableJobSkills():  
    return linux, OSX, javascript, applescript, perl, python, PHP
```

```
if self.interest == True:  
    print "E-mail join@tech.mit.edu"
```

----:----F1 joinTechno.py (Python)--L1--Top-----

CEO dismisses concerns over user privacy

Backpack, from Page 1

Some prefrosh The Tech spoke with decided against using the backpack, citing privacy concerns. However, Fink maintained that the data collected was anonymized and would not be shared with MIT.

Course 20 professor Katharina Ribbeck originally suggested that each prefrosh should get a backpack. During her time as a Simmons Residential Scholar, Ribbeck noticed that some students had a hard time approaching new faces and making friends. Fink took the idea, received approval from Vice Chancellor Ian Waitz, and put it into action.

“I truly believe education is about getting people excited, and this is one way to do that,” Fink said. “One of the reasons MIT has invested into [AFFOA] is to make things like this more accessible to students and faculty.”

While the fabric technology was developed in labs at MIT and AFFOA facilities, the actual weaving process takes place at the Inman Mills complex in South Carolina. The woven fabric is then sent to Jansport, a backpack manufacturer, which directs the sewing of the material.

“One reason we chose backpacks [as a medium] is that they’re less intimate than clothing. Our clothes are very close to us, and they’re changing all the time. We leave our backpacks at the door, but they’re always the same,” Fink said.

While MIT labs come up with innovative technologies every year, only a small number make it to the marketplace, Fink said. “The time between invention and product — that’s the ‘Valley of Death,’” he said. “AFFOA exists to bridge that gap.”

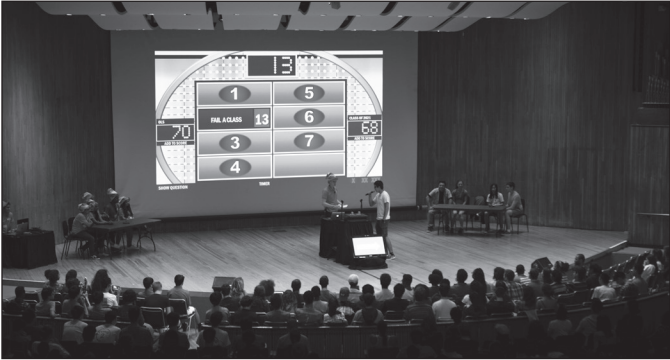
Companies like Samsung and Google have experimented with “smart” fabrics before, but no company has come up with an entirely new way of making fibers like AFFOA, Fink said.

“[What Google is doing] is just a wire. It’s almost like a gimmick. The fundamental technology is taking a wire and putting it into a thread,” Fink said about Google’s recent unveiling of Project Jacquard, a touch-controlled textile. “That’s been done before — they’ve done it a little better — but the wire is not the basis for any functional device. So there’s a lot of hype, but at the end of the day, there’s no innovation in the technology. But here, every week, we are figuring out how to get more devices packed into a fiber.”

Messaging other users within the Looks app is not yet supported, but

users can currently send each other emojis. Potential future app developments include the ability to send gifts, such as a redeemable cup of coffee, through the app, or to use the app as a way to make money, via advertisements or affiliate links.

Fink envisions the backpacks being used in elementary schools to increase security or in professional settings to improve networking. AFFOA first unveiled the backpacks at the opening for their headquarters and is now leading the production of over 5,000 backpacks a month. Drexel University students will be the next group to receive free backpacks.



AMY SHIM

Prefrosh guess top seven responses to “101 things to do before graduating” in a quiz game run by orientation leaders at Orientation Kickoff in Kresge on Aug. 27.

secular
society
of MIT
PRESENTS
a slice of
the ongoing
journey by
renowned
biologist
Richard
DAWKINS
and
MIT alum
physicist
Lawrence
KRAUSS
to make the
case for
science and
reason
around
the world

the UNBELIEVERS

What are you willing to believe?

A BLACK CHALK FILM
"THE UNBELIEVERS" RICHARD DAWKINS LAWRENCE KRAUSS
DIRECTED BY GUS HOLWERDA LUKE HOLWERDA AND JASON SPISAK
EDITED BY LAWRENCE KRAUSS JIC FILMS PRIMORDIAL PRODUCTIONS
PRODUCED BY LUKE HOLWERDA WRITTEN BY GUS HOLWERDA
ARE YOU AN UNBELIEVER? WWW.UNBELIEVERSMOVIE.COM @UNBELIEVERSFILM

75-MINUTE DOCUMENTARY SCREENING
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THU, SEP/07 | 7:30PM | 4-237

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New House will undergo a year of renovations. Houses 5 and 6 will remain open for the fall.

MAHI NUR MUHAMMAD

Union-less immigrants particularly vulnerable as ICE increases arrests

the birth of his son.

“This is a completely arbitrary and unlawful detention,” Cameron said. “They completely reneged on their agreement with him. They said that as long as he showed up with the plane tickets, they wouldn’t take him in.”

Franklin Soultz, senior communications associate at Rodriguez’s union, 32BJ SEIU, said in a call with The Tech that court records indicated that ICE had been planning to move Rodriguez on July 14 to Louisiana and deport him the next Wednesday.

Rodriguez may have already been deported if not for his union, which has organized public action on his behalf, including hosting rallies in front of the State House.

Direction from Washington for ICE to take action against illegal immigrants, even those with no criminal history, has resulted in “a lot of folks detained and deported,” Roxana Rivera, vice president of 32BJ SEIU, said in a call with The Tech. Unlike Rodriguez, “they’re not connected to organizations who can make their case known. By the time we find out, they’ve already been moved out.”

According to the ICE website, arrests of illegal immigrants between January and April increased by 37.6

percent this year from last year. At the same time, the number of illegal immigrants who were convicted criminals only rose 18.6 percent.

Sergio Medina, who works with Rodriguez as a custodian at MIT, was granted asylum when he fled to the U.S. from Colombia and is now a U.S. citizen. Like Rodriguez, Medina was feared for his life due to gang violence. And the situation in El Salvador, Rodriguez’s home country, has not improved, Medina said in a call with The Tech.

Medina didn’t find out that Rodriguez was an undocumented immigrant until after the latter was refused a stay of removal. Because Rodriguez applied for asylum, he had social security and a work permit to employed by MIT, Medina said.

“It’s really unfair, you know,” Medina added. “He was a hard worker. He had his own company, so he was paying double taxes.”

What will Rodriguez face in El Salvador if ICE does deport him?

“If they deport him, he’ll go back with nothing. In our countries, if you’re after 30, you won’t be able to find a job,” Medina said. Rodriguez would also be vulnerable to the gang violence from which he fled in the first place.

Rodriguez’s union, together with

Jobs With Justice, has organized a petition calling on Massachusetts governor Charlie Baker to speak out about Rodriguez. Rivera hopes that Baker can “weigh in” with ICE on Rodriguez’s behalf. This could involve Baker indicating to ICE that Rodriguez was unlawfully detained and being “a voice in Washington” concerning the attitude towards immigration that he wants to see in Massachusetts.

Baker, a Republican, previously told reporters that he doesn’t think Rodriguez meets the criteria for ICE’s focus on arresting convicted and charged criminals. But he has not yet asked for Rodriguez’s release. Even if he did, it’s unclear if his appeal would have a lasting effect: a pardon from the state governor failed to prevent an undocumented mom from Virginia from being deported to El Salvador.

Rodriguez is currently safeguarded from deportation by two court orders, Soultz wrote in an email to The Tech. The Board of Immigration Appeals is deliberating his case for asylum, and has ordered that he stay in the country until they decide whether to reopen the case or not. His lawyers have also filed a habeas corpus petition before the U.S. District Court in Massachusetts on the grounds of unlawful detention, and ICE has agreed to keep him in the state until the court issues a ruling on the petition.

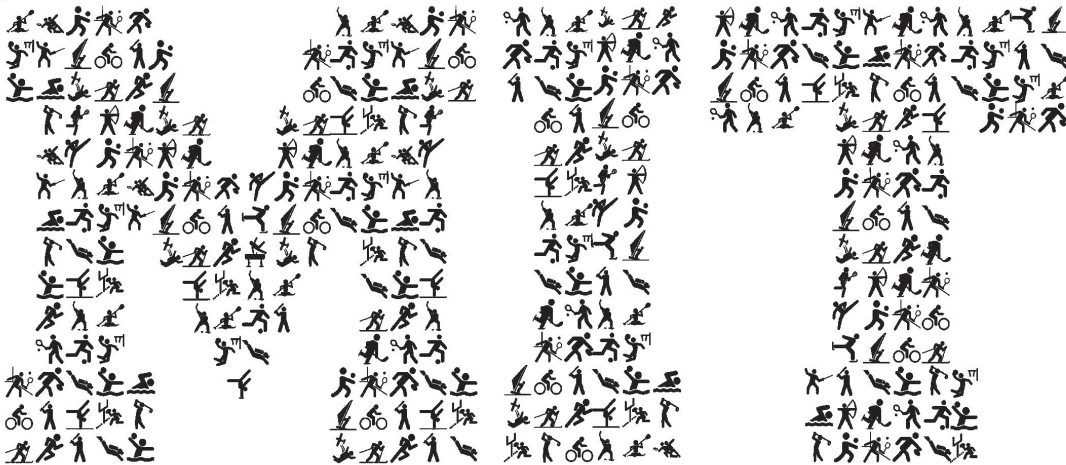
If the board decides to reopen his application for asylum, he would be eligible for release from detention by posting a bond. Both the habeas petition and the asylum appeal have stalled, Cameron said, though he believes his client has a strong case for both.

Rodriguez is able to speak to his family regularly, Rivera said, but he was not permitted to attend the birth of his son earlier this month. Lily Huang, an organizer with Jobs With Justice and the author of the Baker petition, told The Tech that Rodriguez’s mother, a permanent resident, has visited him twice after going through a two-week approval process.

Rodriguez, from Page 1

said in a call with *The Tech* that “ICE’s statement is a lie,” and that

ICE never indicated that the departure had to fall within a certain time frame. Rodriguez’s legal team had purchased the ticket for a date after



Graduate Orientation Olympics 2017

Sept 3, Sunday

2pm - 7pm

(Registration at 1pm)

Z-center

contact: tang-government@mit.edu

Solution to Dorm Needs

from page 9

SPOT	GEMS	CRUST
LAVA	ODIE	RANTO
OPAL	VILE	ADDUP
WALL	DECORATIONS	
	ART	TEA
CRAMIN	DES	LOAN
AURAS	SAGES	ORE
CLOSET	ORGANIZER	
HEM	SHOES	ONEND
ERAS	ITS	MONDAY
	CNN	PUP
VIDEO	GAMES	SYSTEM
IRANI	MAPS	HIDE
SORTS	ELSE	IRIS
ANTS	NEIL	PETS

Solution to Convocation

from page 9

2	1	5	7	8	6	9	4	3
6	3	8	1	9	4	5	2	7
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9	4	7	6	2	1	3	8	5
8	5	6	3	4	7	2	9	1
3	2	1	9	5	8	6	7	4

Solution to Sophomores

from page 10

7	2	3	6	8	9	5	4	1
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4	8	9	3	5	6	2	1	7
2	6	7	1	3	4	9	8	5
5	9	1	4	6	7	3	2	8



Aubrey Plaza and Elizabeth Olsen in *Ingrid Goes West*.

COURTESY OF NEON

MOVIE REVIEW

Seeking your fortune out west never grows old

Ingrid Goes West is a funny, moving, and surprisingly, even heartbreaking look at obsession

★★★★☆

Ingrid Goes West

Directed by Matt Spicer

Written by Matt Spicer and David Branson Smith

Starring Aubrey Plaza, Elizabeth Olsen, O'Shea Jackson Jr., Wyatt Russell, Billy Magnussen

Rated R, Now Playing

By Ivy Li
ARTS EDITOR

Clutching her phone close to her, a young woman scrolls through Instagram and likes beautiful, happy wedding photos. It is not hunky dory; this woman is sobbing and angry. We find her crashing a “friend’s” wedding, getting sent to a mental hospital and instantly, we are welcomed into the world of the obsessive

Ingrid Thorburn (Aubrey Plaza). Followingthe wedding and her mother’s death, Ingrid finds herself alone. After seeing Taylor Sloane (Elizabeth Olsen), a popular Instagrammer and Los Angeles socialite, in a magazine, Ingrid yearns for this idyllic lifestyle. Using the cash left behind by her mother, Ingrid sets out west to meet her idol, reinventing herself as a LA girl by imitating Taylor. Plaza plays a sympathetic character

who can get us to laugh both at her and with her. Stalking a social media celebrity needs class: stuff your mouth with fries. Renting a room needs money: pull out stacks of bills (no, you’re not a hooker or drug dealer). Making friends requires a car: steal a truck from your imaginary boyfriend. But amidst the fun hijinks, we see Ingrid’s status grow more fragile. Taylor’s drug-addict brother Nicky (Billy Magnussen) sees through Ingrid’s donned persona, as she is not who she tries to be. Everything, of course, erupts in flames when Ingrid’s lies catch up to her. When she is most vulnerable, Plaza does not overact; Ingrid isn’t your melodramatic heroine. When she tells Dan (O’Shea Jackson Jr.), her landlord, the truth, it’s sincere. Despite being a predictable move, her moment of sincerity feels earned after covering up her insecurities with bleached hair and Instagram photos of glamorous food. Perhaps the only indulgent point is Dan’s tolerance for Ingrid. We know he sympathizes with her mother’s death having too lost his parents. The film wisely

leans away from the morose, as the Dan’s love of Batman is a joke that gets good mileage, both as a more on-the-nose comment on the value of ordinary people and a running gag. In the midst of glamour, he is the voice of reason and, sometimes, a little too good to be true. But Plaza’s performance as Ingrid is so compelling that I just wish the best for her, and Dan’s acceptance of her is the what she needs. It is only at the end when I realize that Ingrid could easily appear to be psychotic, obsessive, and dangerous. She is still those things, but moreso, she is afraid, friendless, and tired of being alone. Had the film not been empathetic to her plight, Ingrid could easily have been vilified. I walked in expecting a comedy, but instead, I left sympathizing with Ingrid, because for a young woman who obsesses with how she looks and acts, who keeps her phone close to her heart, Ingrid is far from being a digital fake. The film isn’t just about technology; it’s about our relationship with it. Go on and retweet #iamingrid. Follow @ingrid-goeswest. Just do it in moderation.



THE DAILY CONFUSION

Fraternity, Sorority, and Independent Living Group Rush 2016

Welcome to the Daily Confusion for FSILG Rush 2017!

Greek and ILG life are huge on MIT's campus, and while they may not be right for everyone, many people cite their affiliations as a key piece of what makes their MIT experience so fun and valuable.

Contained within these pages are events and short living group descriptions for Rush and Recruitment, submitted by FSILGs by our publication deadline. Fraternity and Sorority blurbs can be found on this page, while Sorority Events and Independent Living Group blurbs and events on page 7. A map of MIT and all of the FSILG living groups is included here as well.

Guides provided on Saturday's Kresge Kickoff, the official kickoff of Rush, will provide more detail on the events. We hope you can use this to start planning out your schedule over the next few action-packed days. Be sure to explore as many places as possible, enjoy some delicious free food, and have lots of fun!



Fraternities

Fraternity Rush begins at 12:00 p.m. on Saturday, September 2, at Kresge Oval. Rush events will be announced there.

MESSAGES FROM FRATERNITIES

Alpha Delta Phi

Alpha Delta Phi is a house of diverse people with diverse interests! Come play video games, pong, and pool while debating philosophy, physics, and ideals with us!

— Diits Gopalan, 2018

Alpha Epsilon Pi

AEPi is a closely knit group of brothers who excel in whatever we set our minds to, be it academics, philanthropy, research, or sports. Of course, we also know how to unwind and have fun: weekly social events ranging from mixers to parties, weekend cookouts grilling on our gorgeous patio by the esplanade and relaxing in our hot tub, study breaks with homemade banana bread and fresh cider, and brotherhood retreats to the slopes of Mont Tremblant are just a few of our amazing events. On any given night you can find us enjoying a meal together at one of the many nearby restaurants in Kenmore Square, battling it out on our foosball table, working out in our in-house gym, or watching football, basketball, or baseball while play-

ing Smash, Halo, or Madden on our stacked HD TVs. We go above and beyond in helping one another, and this commitment to our brotherhood helps us to succeed in all aspects of our lives. So come visit us at 155 Bay State Road - we can't wait to meet you!

— Nathaniel Knopf, President AEPi

Delta Psi / No. 6

The Number Six Club is a nationally-affiliated, co-ed literary fraternity. Since our founding in 1889, we have identified as a group which collectively aims to develop a cultured understanding of the world through discussion and debate. Our house is one of the oldest buildings on campus, located between Burton-Conner and MacGregor. To its members, The Number Six Club is a home, a connection, a place where we can discuss deep questions about life and the world. It is a place to let off steam on the weekends, a place to party, relax, and enjoy the little things, and it is a valued aspect of our MIT experience. As a literary society, we provide each other with a receptive medium for personal expression. Through conversations and presentations, we pursue our interests, ranging from the arts to politics, from science to culture, and from philosophy to music. Additionally, we host a Lecture Series where distinguished academics and speakers provoke discussions amongst members and friends.

— Emma Turtelboom and Rebca van de Ven

Kappa Sigma

People ask me all the time, "Hey, blurb-writer, why Kappa Sigma?" It's a tough question. There's a lot of reasons I could give. Like the shared respect for Super Smash Bros Melee for the Nintendo Gamecube (and other, inferior editions). Or the love of today's most poignant social commentary, Rick and Morty. Mostly, I joined for the people. The dudes, if you will. I might be biased, but I think the guys in Kappa Sigma are pretty alright. If you're interested in meeting some dudes, check us out at 407 Memorial Drive. If not? No sweat man, enjoy life.

— KSDude123

Phi Delta Theta

The brothers of Phi Delta Theta are a tight-knit group of young men who strive to excel in all aspects of life. Located in the heart of Boston, we have everything the city and MIT has to offer. The brothers are involved in athletic, academic, and recreational activities and various communities on and off campus. With members from across the world, our fraternity thrives on diversity and strives to achieve excellence. We boast a supportive and successful alumni network, proving that Phi Delta Theta is a positive experience that can have a lasting impact on the rest of your life.

— Jeff Zhang and Terrance Liang

Phi Beta Epsilon

Since our founding in 1890, countless brothers of Phi Beta Epsilon have learned what it means to thrive as students and graduates of MIT. PBE is one of the most diverse houses, with career interests ranging from starting companies, developing cutting edge technologies, and working on Wall Street. What unites us all is the drive to be successful both in and out of the classroom. Brothers lead student groups, compete in varsity sports, and still find time to throw some of the greatest parties in the Boston-Cambridge area.

Our location between Baker House and Burton-Conner gives us one of the best roof deck views on campus, overlooking MIT, the Charles River and the iconic Boston skyline. We're proud of our home at Old 400, where we make some of the strongest connections of our college years. PBE works hard and plays harder, and being a part of this brotherhood is unforgettable.

— Samir Dutta

Sigma Nu

At Sigma Nu, you'll find brothers with a wide range of passions, including music, athletics, poker, and gaming, to name a few. Through these interests, we create meaningful and lasting relationships and memories. Our beautiful home is filled with rich camaraderie and a lively atmosphere brothers have cherished for life. Late night journeys to JP Licks ice

cream, Saturday night burgers at the Pour House, and Mario Kart in the Queue are just some of the many traditions brothers have come to love. If you want to be experience Sigma Nu for yourself, make sure to come by during Rush!

— Mario Contreras

Zeta Psi

Zeta Psi is not your average fraternity. Our brothers are the core of Orientation program, the anchors of eight Varsity Sports, the heart of Community Service groups, and leaders of countless student organizations, including the IFC. We also have practical entrepreneurs, active do-it-yourselfers, and thrill-seeking adventurers within our midst.

Our house, which takes up an entire block, is just a five minute walk from main campus and ten minutes from bustling Central Square. We have a pool table, bar, home theater, weight room, woodshop, and full sized professional kitchen. Zeta Psi is a prime place to chill by day—with a massive house and massive parties, Zeta Psi is also the place to rage by night. At Zeta Psi, we're serious about life, we're serious about having fun, and we're serious about not taking ourselves too seriously. If living in a sweet house full of great people sounds like a good time to you, stop by Zeta Psi for rush and see what we're all about.

— Julian Alverio and Ike Urquhart

Sororities

MESSAGES FROM SORORITIES

Alpha Epsilon Phi

Alpha Epsilon Phi was founded

by seven Jewish women at Barnard College with a mission: to establish a sisterhood for inspiring and supporting exemplary women dedicated to lifelong friendship. It is founded on Jewish values, such as justice

and social equality, but is not a religious organization - we are proud to count sisters from many different backgrounds among our members. At MIT, AEPi is a small, close-knit chapter with approximately twenty

sisters. Throughout the year we hold events such as our annual philanthropic spring cupcake sale and make time to volunteer with local groups in the community.

MIT Alpha Epsilon Phi recruits in-

formally, meaning we will have more casual events starting the first week of classes where you can get to meet us. Feel free to email aepi-recruit@mit.edu if you have any questions!

— Mindy Wu

Events for Sororities

Friday,
September 1, 2017
5:30 PM
4:00 PM **Panhellenic Association**
Lodbell Dining Hall (W20-208): Still unsure about recruitment? This is the event for you. Come ask us about finances, being a minority in a sorority, academics, & more.

Saturday,
September 2, 2017
8:30 AM
8:30 AM (until Monday, September 4) **Panhellenic Association**
Student Center (W20): Spend 3 days getting to know the 500+ so-

rority women on campus. Register online at *panhel.mit.edu*. Email *sororities@mit.edu* with questions.

Thursday,
September 7, 2017
4:00 PM
4:00 PM - 6:00 PM **Alpha Epsilon Phi**
Killian Court: Picnic and Bubble Blowing!. Blow some bubbles in the sun or sit back and relax with our sisters! (Rain location: 2-135)

Sunday,
September 10, 2017
10:00 AM
10:00 AM - 12:00 PM **Alpha Epsilon Phi**

W20-407: Cookie Decorating. Stop by to decorate some cookies — and eat them, of course!

Monday,
September 11, 2017
6:00 PM
6:00 PM - 8:00 PM **Alpha Epsilon Phi**
W20-407: Around the World Dinner. Join Alpha Epsilon Phi for our semi-annual Around the World Dinner! Our sisters have made food from around the world and want to share them with you!

Wednesday,
September 13, 2017
7:00 PM

7:00 PM - 11:30 PM **Alpha Epsilon Phi**
4-251: Pset Party. Come study with the sisters of AEPi and see firsthand how being part of a sorority can help you academically!

Friday,
September 15, 2017
4:00 PM
4:00 PM - 6:00 PM **Alpha Epsilon Phi**
Cheney Room (3-310): Tea, Biscuits, and Bobaaaaaaa . Enjoy some tea and biscuits on a Friday afternoon with AEPi and some boba on the side!

Sunday,
September 17, 2017

7:00 PM
7:00 PM - 9:00 PM **Alpha Epsilon Phi**
Talbot Lounge, East Campus: Coloring, Crafts, and Games. Psets stressing you out? Take a break with some coloring books or fun board games with the sisters of Alpha Epsilon Phi!

Monday,
September 18, 2017
7:00 PM
7:00 PM - 9:00 PM **Alpha Epsilon Phi**
Cheney Room (3-310): Wafflemaking!. Want some waffles for dinner? Stop by and toast your own fluffy stack of goodness with Alpha Epsilon Phi!

Independent Living Groups (ILGs)

MESSAGES FROM INDEPENDENT LIVING GROUPS

Epsilon Theta
ET is a dry, co-ed MIT living group made up of about twenty humans. We’re known for our friend-

liness, quirky sense of humor, and fondness for baby ducks. On a typical afternoon at ET, you can find us: playing board games, singing nerdy songs, playing video games, enjoying a meal prepared by our cook, engaging in wordplay, and discussing everything from linguistics to sandwiches. Look for the yellow duck in Lobby 7 at the times

listed. Check us out at *et.mit.edu*! — *ET Rush Chairs*

pika
pika is a continuing experiment in cooperative living. we are LB-GTQ+ friendly and vegan-friendly. come chill with our 30 hippie misfits and our 2 cats! — *Sam Dukhovni*

WILG
We bond over cooking dishes from all over the world, six days a week. If your goal is to become the next Gordon Ramsey during your time at MIT, WILG is the place to do it. We bake, thrive on relatively odd in-depth discussion, play social games, watch movies and TV

shows regularly, and are generally very (figuratively) fuzzy people. Stop by anytime at 355 Mass Ave to eat, chat, cook, explore crafts with us, and much more! Hit us up at *wilg-rush@mit.edu* with any questions, and add yourself to *wilg-interest@mit.edu* for rush updates and more. — *Ama Koranteng*

Events for Independent Living Groups

Saturday,
September 2, 2017
2:00 PM
2:00 PM - 5:00 PM **Epsilon Theta**
Puzzle Hunt. Puzzles can be anything. Grab a pencil and some paper, join a team, and try to be the first to solve our Hunt.

Sunday,
September 3, 2017
1:00 PM
1:30 PM - 5:00 PM **Epsilon Theta**
4-149: Board Games on Campus. Card games, speed games, word games, German-style games, cooperative games, secret-traitor games... there’s something for everyone!

2:00 PM
2:00 PM - 4:00 PM **Women’s Independent Living Group**
Meet at Lobby 7: Kayaking. Come hang out with WILGlettes and try not to fall out of your boat as we take a fun kayaking trip on the Charles River!

4:00 PM
4:00 PM - 5:00 PM **pika**
Root beer floats!. Cool off with delicious ice cream on top of fizzy drinks! Vegan ice cream available :)

7:00 PM
7:00 PM - 8:00 PM **pika**
Make your own sushi!. Be the sushi chef you wish to see in the world. Vegan options available :)

9:00 PM
9:00 PM - 11:00 PM **Epsilon Theta**
ET Lightning Talks. Come learn about everything from special relativity to the history of Star Wars to how to tie your shoes faster in five minutes or less!

Monday,

September 4, 2017
5:00 PM
5:00 PM - 7:00 PM **pika**
Tie Dye. Introduce colors to fabrics! White shirts and socks provided, but feel free to bring your own.

7:00 PM
7:00 PM - 8:00 PM **pika**
Make your own pizza. A spectre is haunting pika: the spectre of PIZZA! Come seize the means of pizza production and make a pizza with whatever toppings you want! Vegan options available :)

9:00 PM
9:00 PM - 10:00 PM **pika**
Queer Night. We’ll have a relaxed talk about all sorts of queer issues. LGBTQ life at MIT, dating, sexuality, gender, coming out, Judith Butler, the whole nine yards. Featuring genderless gingerbread people!

9:00 PM
9:00 PM - 11:00 PM **Epsilon Theta**
Escape the Room. Do you have what it takes to escape? Work with a team to solve our puzzles and get out of the room before it’s too late!

10:00 PM
10:00 PM - 11:00 PM **pika**
Sex without the scare tactics. Let’s talk about sex and eat sexy foods. BDSM, polyamory, safer sex, birth control, the November rule, consent, STIs, and “hookup culture”. 10:00 PM - 12:00 AM **Women’s Independent Living Group**
Midnight Crepes. We know it’s not really midnight, but “10PM Crepes” just doesn’t sound as good, and Nutella and strawberries taste great at any time of day

Tuesday,
September 5, 2017
11:00 AM
11:00 AM - 1:00 PM **Women’s Independent Living Group**

Reg Day Brunch. Drop by before or after your Reg Day meetings to have brunch, chat about classes, and chill with WILG.

2:00 PM
2:00 PM - 4:00 PM **Women’s Independent Living Group**
Great British Bake-Off Tea Party. Here at WILG, the only thing we like better than watching The Great British Bake-Off is eating baked goods ourselves. Come do both with us!

3:00 PM
3:00 PM - 5:00 PM **Epsilon Theta**
4-149: Mao on Campus. A card game about figuring out the rules and making new ones. Every time you read this blurb beyond the first, you must do 5 jumping jacks.

5:00 PM
5:00 PM - 6:00 PM **pika**
Cookie Cat!. Come make delicious, adorable, vegan cookie cats (icecream sandwiches in the shape of a cat) and watch Steven Universe (possibly in Spanish)

7:00 PM
7:00 PM - 8:00 PM **pika**
Brunch for dinner!. Brunch: a meal that combines breakfast and lunch. But what happens when you serve brunch for dinner, combining all three meals into a single all-powerful SUPER MEAL???

Wednesday,
September 6, 2017
7:00 PM
7:00 PM - 8:00 PM **pika**
Sour and Sweet Dinner. Don’t be bitter. Don’t be salty. Tonight, all the food will be sour. But don’t worry, we’ll be giving out miracle berries to everyone! Sweet!

8:00 PM
8:00 PM - 9:30 PM **Women’s Independent Living Group**
Froyo Field Trip. Feeling hungry

for dessert after our delicious dinner? Hop on the #1 bus for some refreshing froyo and the company of awesome WILGlettes!

9:00 PM
9:00 PM - 11:00 PM **Epsilon Theta**
Live Action Algorithms. Really bad sorting algorithms, acted out in real time! (Or not, if they’re bad enough that that would take forever.)

Thursday,
September 7, 2017
7:00 PM
7:00 PM - 8:00 PM **pika**
Oulipian Food. All of tonight’s foods don’t contain that fifth orthographic symbol, which is normally so common in Anglophonic words.

7:00 PM - 9:00 PM **Epsilon Theta**
Regular Human Basketball and Other Silly Video Games. Join us for some Regular Human Basketball, Ultimate Chicken Horse, and other games you might not have heard of.

8:00 PM
8:00 PM - 10:00 PM **Women’s Independent Living Group**
Boba and Games. Join us for boba, Exploding Kittens, board games, and much more!

Friday,
September 8, 2017
8:00 PM
8:30 PM - 10:30 PM **Women’s Independent Living Group**
Painting with Bob Ross. We don’t make mistakes, just happy little accidents. Come to WILG and paint happy little trees or whatever your heart desires with us!

9:00 PM
9:00 PM - 11:00 PM **Epsilon Theta**
Fermi Questions. Estimate stuff to within an order of magnitude,

for sufficiently ridiculous values of “stuff”. After, join us for blanket fort and s’mores!

Saturday,
September 9, 2017
3:00 PM
3:00 PM - 5:00 PM **Women’s Independent Living Group**
Henna, Crafts, and Temporary Tattoos. Ever wanted a hardcore tattoo, but not really? Want to craft something worthy of Martha Stewart? We’ll have supplies for all that and more!

8:00 PM
8:00 PM - 10:00 PM **Women’s Independent Living Group**
Resist the Ultimate Werewolf Mafia in Avalon. Are you good at lying to an entire town? Rating out your friends? Join us for Mafia, Ultimate Werewolf, and Resistance (Avalon)!

9:00 PM
9:00 PM - 11:00 PM **Epsilon Theta**
Laser Maze and Katamari Dama-cookie. Dodge your way through our homemade laser security system to rescue the stuffed animals and escape before it’s too late! Make and eat cookies while waiting!

Sunday,
September 10, 2017
1:00 PM
1:30 PM - 5:00 PM **Epsilon Theta**
4-153: Board Games on Campus (Week 2). Bored of games? Never! Board of games? Always!

3:00 PM
3:00 PM - 6:00 PM **Women’s Independent Living Group**
Cake Decorating 101. Learn how to level a cake, use frosting and fondant, pipe icing, and make figurines. Have your cake and eat it too at WILG!

DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (**hint:** yours!).
Email your pieces to cl@tech.mit.edu

HOPE FELLOWSHIP CHURCH

BBQ KICKOFF!



SEPTEMBER 3RD @ 12:30 PM

FREE BBQ

FOLLOWING 11AM SERVICE
BBQ & GIVEAWAYS @ 12:30

16 BEECH ST. CAMBRIDGE

IF WE FIND OURSELVES WITH A DESIRE THAT NOTHING IN THIS
WORLD CAN SATISFY, THE MOST PROBABLE EXPLANATION IS
THAT WE WERE MADE FOR ANOTHER WORLD.

C.S. LEWIS

SUNDAYS
9am | 11am
Services near Porter Square
16 Beech St. | Cambridge

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hopefellowshipchurch.org

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EVENT

MIT Libraries Ice Cream Social

Thursday, August 31, 3–5pm
Lipchitz Courtyard, Building 14
*All freshmen welcome for free Ben & Jerry's ice cream
with the Libraries!*

Wanna
make
columns?

Not an
architect?

Join
Campus Life
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Convocation Complete

Solution, page 4

	1	5		8				3
	3				4	5		
		9		3			1	
		3						
1	6	2	5		9	4	3	8
						7		
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Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Dorm Needs by Sandy Fein

Solution, page 4

ACROSS

- 1 Catch a glimpse of
5 Diamonds and rubies
9 Pizza’s outer rim
14 Volcano outflow
15 Garfield’s canine friend
16 Charged towards
17 Whitish birthstone
18 Despicable
19 Find the sum of
20 Posters and murals
23 Sculpture or painting
24 Chinese restaurant beverage
25 Pack tightly
29 __ Moines, IA
31 Cash advance
35 Mystical glows
36 Wise ones
38 Metallic rock
39 Shoe rack or garment rack
42 Garment edge
43 Sandals and sneakers
44 For days __ (continuously)
45 Memorable time periods
47 Part of TGIF
48 Start of many workweeks

- 49 Anderson Cooper’s network
51 Young dog
52 Xbox or PlayStation
61 Native of Teheran
62 Atlas pages
63 Keep out of sight
64 Puts in alphabetical order
65 Otherwise
66 Colored part of the eye
67 Fidgety
68 Astronaut Armstrong
69 Parakeets and poodles
DOWN
1 Reduce one’s speed
2 Biggest of the Three Bears
3 Egg-shaped
4 Above average in height
5 Run a country
6 Royal decree
7 Venus de __
8 Fortune-teller
9 Box for oranges
10 With 58 Down, type of auto wheel
11 Loosen, as laces
12 Astonish

- 13 Spinning toys
21 Banquet platforms
22 On a cruise
25 Hidden supply
26 Measuring stick
27 Fragrance
28 Mothers, informally
29 Takes a risk
30 They’re cracked for omelets
32 Seeped
33 Sports or concert venue
34 Not at all hip
36 Chimney dust
37 Charlie Brown’s dog
40 Inanimate object
41 Quaint hotel
46 Fragrances
48 Oyster’s cousin
50 Too loud
51 Coca-Cola competitor
52 Border-crossing document
53 Clothes-pressing appliance
54 Pub-game missile

- 55 Prayer ending
56 Rooster or ram
57 Ocean vessel

- 58 See 10 Down
59 Spruce up, as an essay
60 Untidy condition

1	2	3	4		5	6	7	8		9	10	11	12	13
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MIND & HANDBOOK

The *Mind and Hand Book* is the official guide to MIT’s expectations of all undergraduate and graduate students.

➔ <http://handbook.mit.edu> ➔

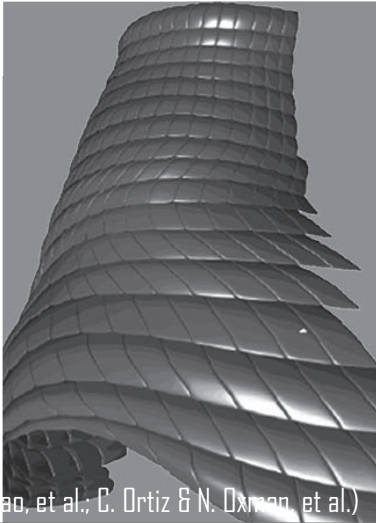
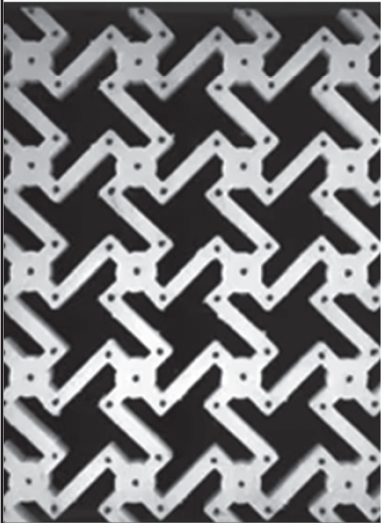
New Class Fall 2017 MIT 3.S03, EC.S13 Materials, Societal Impact, & Social Innovation NOW OPEN TO MIT UNDERGRADUATE AND GRADUATE STUDENTS Pre-Register Online: Limited to 15 students

Students work on exciting team-based projects at the interdisciplinary frontiers of materials research within a societal and humanistic context, supported by class topics on frontier research and inquiry, social innovation, human-centered design thinking, computational design, additive manufacturing, etc.

Projects will be in collaboration with **MIT LINCOLN LABORATORY**, **LOCAL STARTUP COMPANIES**, and **RESEARCH LABORATORIES AT MIT AND LOCALLY**.

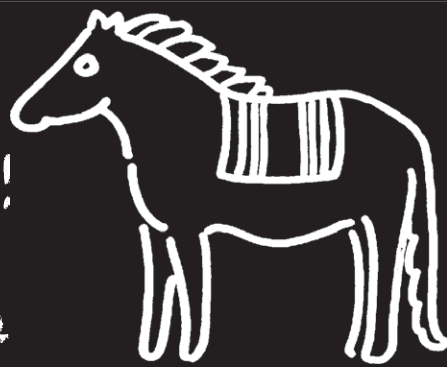
Examples of available projects include: ■ Economics of Enabling Biomaterials ■ Valuable, Sustainable Materials from First Principles ■ 3D-Printed Electrode Arrays for Consumable, Instrumented Body Chips ■ Passive Lighting Structures for Locations With No Electricity ■ Environmental Impact of 3D Printed Consumables ■ Computational Fabrication of Multiscale Hierarchical Nanocomposites

BENEFITS TO STUDENTS: Gain experience working in an interdisciplinary team, create a showcase portfolio for potential employers, authentic hands-on experience in a startup company or research laboratory, build mentoring relationships for future letters of recommendation, exposure to frontier areas of research that have a direct social impact. For more information email: mitmss@mit.edu.



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***Americanah* by Chimamanda Ngozi Adichie is the MIT Reads fall selection**

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CHIMAMANDA
NGOZI ADICHIE
AUTHOR OF **HALF OF A YELLOW SUN**

...by joining
the production
department at
The Tech!

join@tech.mit.edu

[illegible]

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